



CYBERSECURITY COURSE PATHWAY



EXPLORATION

Principles of Information Technology (optional, 8th grade)
Fundamentals of Computer Science



INVESTIGATION

Computer Science I



PREPARATION

Computer Science Applications



APPLICATION

Practicum in Information Technology

EXPANDED LEARNING OPPORTUNITIES

Career & Technical Student Organization

SkillsUSA
CyberPatriot

Work-based Learning

Local computer system
analyst or information
security company

INDUSTRY BASED CERTIFICATION OPPORTUNITIES

Comp TIA ITF+

DUAL CREDIT OPPORTUNITIES

Computer Science I
Computer Science Applications
Practicum in Information Technology

Discuss additional dual credit opportunities
with your counselor

The CyberSecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and viruses and administering network security measures.

POSTSECONDARY OPPORTUNITIES

ASSOCIATE'S DEGREE

- ◆ System Networking, and LAN/WAN Management
- ◆ Information Technology
- ◆ Computer and Information Sciences, General
- ◆ Computer Science

BACHELOR'S DEGREE

- ◆ Computer Systems Networking and Telecommunications
- ◆ Computer and Information Sciences, General
- ◆ Computer Science

MASTER'S, DOCTORAL, & PROFESSIONAL DEGREES

- ◆ Computer Systems Analysis/Analyst
- ◆ Information Technology
- ◆ Computer Information Sciences, General
- ◆ Computer Science

CONNECTED OCCUPATIONS

Occupation	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

Successful completion of the CyberSecurity program of study fulfills the requirements of a Business and Industry endorsement or a STEM endorsement if the math and science requirements are met.

Temple ISD Course Details

COURSE NAME	PREREQUISITES	GRADES	TISD COURSE CODE	SERVICE ID and COURSE CREDIT
Principles of Information Technology (8th grade)	None	8	V13072	13027200 (1 credit)
Fundamentals of Computer Science	None	9-12	V12705 ⁺	03580140 (1 credit)
Computer Science I	Fundamentals of Computer Science and Algebra 1	10-12	V12710 ⁺ V12610 (DC)	03580200 (1 credit)
Computer Science Applications*	Computer Science 1, Algebra 1, and Geometry	11-12	V12712 ⁺ V12612 (DC)	13037400 (2 credits)
Practicum in Information Technology**	Each of the above courses (Principles of IT optional)	12	V13074 V13174 (DC)	13028000 (2 credit)

*Computer Science Applications = Practicum in STEM offered as a 1 period course

**Travel and costs are associated with this course

⁺Minimum courses required to meet CTE Completer status

Temple Independent School District prohibits discrimination, including harassment, against any student on the basis of race, color, religion, gender, national origin, disability, or any other basis prohibited by law. The District prohibits dating violence, as determined by this policy. Retaliation against anyone involved in the process set out in this policy is a violation of District policy.